- 22 -

Claims

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- 1. Use of a compound chosen from at least one of manno-oligosaccharides, caseinoglycomacropeptides (CGMP), methyl manno-oligosaccharides, chito-oligosaccharides, pectic oligosaccharides, galacto-oligosaccharides (GOS), curdlan (beta-1,3-glucan), sialyl-oligosaccharides, isomalto-oligosaccharides, oligogalacturonide, partially hydrolysed guar gum, gentio-oligosaccharides, arabino-oligosaccharides, pectin, lactose, lactulose, lactosucrose and long-chain isomalto-oligosaccharides for the manufacture of a nutritional or pharmaceutical composition for the inhibition of pathogen adhesion to mammalian cells, and/or for preventing, reducing or inhibiting the invasion and infection of mammalian cells by pathogen, in particular mammalian gut and/or intestinal epithelial cells.
- 2. Use of a compound chosen from at least one of manno-oligosaccharides, caseinoglycomacropeptides (CGMP), methyl manno-oligosaccharides, chito oligosaccharides, pectic oligosaccharides, galacto-oligosaccharides (GOS), curdlan (beta-1,3-glucan), sialyl oligosaccharides, isomalto-oligosaccharides, oligogalacturonide, partially hydrolysed guar gum, gentio oligosaccharides, arabino-oligosaccharides, pectin, lactose, lactulose, lactosucrose and long-chain isomalto-oligosaccharides for the manufacture of a nutritional or pharmaceutical composition for the prevention or treatment of acute or chronic pathogen-associated enteric disorders in a mammal, in particular gastroenteritis, ulcerative colitis, or diarrhoeal diseases, or for the prevention or treatment of pathogenic microflora proliferation in a mammal.
- 3. Use of a compound chosen from at least one of manno-oligosaccharides, caseinoglycomacropeptides (CGMP), methyl manno-oligosaccharides, chito-oligosaccharides, pectic oligosaccharides, galacto-oligosaccharides (GOS), curdlan (beta-1,3-glucan), sialyl oligosaccharides, isomalto-oligosaccharides, oligogalacturonide, partially hydrolysed guar gum, gentio oligosaccharides, arabino-oligosaccharides, pectin, lactose, lactulose, lactosucrose and long chain isomalto-oligosaccharides for the inhibition of pathogen adhesion to mammalian cells and/or for preventing, reducing or inhibiting the invasion and infection of mammalian cells, in particular gut and intestinal mammalian cells, by-pathogen.
- 4. A method of preventing and/or treating acute or chronic pathogen-associated, e.g. bacteria-associated, enteric disorders in a mammal, in particular diarrhoeal diseases,

gastroenteritis or ulcerative colitis, said method comprising administering to said mammal a therapeutically effective amount of a compound chosen from at least one of manno-oligosaccharides, caseinoglycomacropeptides (CGMP), methyl manno-oligosaccharides, chito oligosaccharides, pectic oligosaccharides, galacto-oligosaccharides (GOS), curdlan (beta-1,3-glucan), sialyl oligosaccharides, pectin, lactose, lactulose, lactosucrose, isomalto-oligosaccharides, oligogalacturonide, partially hydrolysed guar gum, gentio oligosaccharides, arabino-oligosaccharides and long-chain isomalto-oligosaccharides.

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- Use according to any one of claims 1 to 3, or method according to claim 4, wherein
 the compound is chosen from at least one of manno-oligosaccharides, pectic-ligosaccharides, sialyl-oligosaccharides, chito-oligosaccharides, caseinoglycomacropeptide (CGMP), galacto-oligosaccharides (GOS), curdlan and partially hydrolysed guar gum.
 - 6. Use or method according to claim 5, wherein the compound is chosen from at least one of caseinoglycomacropeptide (CGMP), chito oligosaccharides, pectic oligosaccharides, sialyl oligosaccharides and curdlan.
 - 7. Use or method according to any one of claims 1 to 5, wherein the mannooligosaccharide is chosen from at least one of alpha 1-2 manno-oligosaccharide, alpha 1-3 manno-oligosaccharide and alpha 1-6 manno-oligosaccharide.
 - 8. A nutritional or pharmaceutical composition comprising at least one compound chosen from manno-oligosaccharides and/or methyl manno-oligosaccharides, in particular chosen from alpha 1-2 mannobioses, alpha 1-3 mannobioses, alpha 1-6 mannobioses, or methyl alpha manno-oligosaccharides.
 - 9. A nutritional or pharmaceutical composition comprising at least one compound chosen from caseinoglycomacropeptides (CGMP), chito oligosaccharides, pectic oligosaccharides, curdlan (beta-1,3-glucan), sialyl oligosaccharides, isomalto-oligosaccharides, oligogalacturonide, gentio oligosaccharides, arabino-oligosaccharides and long-chain isomalto-oligosaccharides and a nutritionally or pharmaceutically acceptable excipient.

- 10. A nutritional or pharmaceutical composition according to claim 9 wherein the compound is chosen from at least one of chito oligosaccharides, pectic oligosaccharides, sialyl oligosaccharides and curdlan.
- 5 11. A screening method to test the anti-adhesive activity of an oligosaccharide which method comprises
 - a) adding oligosaccharide solution to cell monolayers of the human colonic cell line HT29 in triplicate wells,
 - b) adding an equal volume of bacterial culture,
- 10 c) washing of the cell layers after 2h at 37°C aerobic, 5% CO₂,
 - d) detaching cell layers with trypsin/EDTA solution,
 - e) enumerating bacteria by plate counting, and
 - f) comparing counts in wells with oligosaccharides to those without.